

Amendments to the Specification:

ABSTRACT OF THE DISCLOSURE

[0001] A wireless communication network (10) ~~comprising~~ includes a wireless transmitter (12). ~~The transmitter comprises having~~ a plurality of antennas (AT1₁, AT1₂), ~~wherein each of the plurality of antennas is operable for transmitting signals.~~ The transmitter includes ~~also comprises~~, for each of a plurality of different user channels (Dⁿ), circuitry (22ⁿ) for providing a plurality of groups of symbols in a first symbol group sequence (D₁ⁿ). ~~The transmitter also comprises, for each~~ Each of the plurality of different user ~~channels,~~ channels includes circuitry (24₁ⁿ) for forming a first modulated symbol group sequence for the user channel by modulating the symbols in the first symbol group sequence ~~for the user channel~~ with a unique code that corresponds to the user channel and distinguishes the user channel from each other of the plurality of different user channels and circuitry (26₁) for combining the first modulated symbol group sequences ~~and providing them~~ for transmission by a first antenna (AT1₁). ~~The transmitter also comprises, for each~~ Each of the plurality of different user ~~channels,~~ channels includes circuitry (22ⁿ) for forming a second symbol group sequence (D₂ⁿ) by ~~re-ordering the groups of symbols in the first symbol group sequence and~~ further by time reversing symbols in at least some of the groups of symbols. ~~Also for each of the plurality of different user channels, the transmitter comprises circuitry (24₂ⁿ) for forming a second modulated symbol group sequence for the user channel by modulating the symbols in the second symbol group sequence for the user channel with a unique code that corresponds to the user and distinguishes the user from each other of the plurality of different user channels. Finally, the transmitter comprises circuitry (26₂) for combining the second modulated symbol group sequences and providing them for transmission by the second antenna (AT1₂).~~